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Atty. Dkt. No. 072827-1905

This listing of claims will replace all prior versions, and listings, of claims in the application:

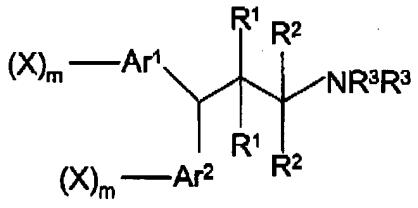
Listing of Claims:

1. (Currently amended) A method of treating a patent for depression comprising ~~the step of administering to said patient an effective amount of~~ selecting a compound having a NMDA IC_{50} of about 50 nM to about 1 μM as measured in the NMDA assay and a serotonin reuptake IC_{50} of less than or equal to about 100 nm as measured in the serotonin reuptake inhibition assay; and

administering to said patient an effective amount of said compound.

2. (Original) The method of claim 1, wherein said compound has an NMDA receptor IC_{50} of 50 nM to 1 μM and a SSRI IC_{50} less than 100 nM.

3. (Currently amended) A method of treating a patient for depression comprising ~~the step of administering to said patient an effective amount of~~ selecting a compound a compound having a NMDA IC_{50} of about 50 nM to about 1 μM as measured in the NMDA assay and a serotonin reuptake IC_{50} of less than or equal to about 100 nm as measured in the serotonin reuptake inhibition assay, wherein said compound has ~~having~~ the chemical structure:



wherein each X is independently selected from the group consisting of -Br, -Cl, -F, -I, -CF_3, alkyl, -OH, —OCF_3, -O-alkyl, and -O-acyl;

Ar^1 and Ar^2 are each independently selected from the group consisting of phenyl, naphthyl, thiofuranyl, tetrahydronaphthyl, furanyl, tetrahydrofuranyl, pyridyl, quinolinyl,

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isoquinolinyl, tetrahydroquinolinyl, tetrahydroisoquinolinyl, cyclohexyl, cycloheptyl, and cyclopentyl;

each R^1 is independently selected from the group consisting of -H, alkyl, hydroxyalkyl, -OH, -O-alkyl, and -O-acyl;

each R^2 is independently selected from the group consisting of -H, alkyl, and hydroxyalkyl, or both R^2s together are imino;

each R^3 is independently selected from the group consisting of -H, alkyl, 2-hydroxyethyl, and alkylphenyl; and

each m is independently an integer from 0 to 5;

provided that if both R_3's are $-CH_3$, then both X_m's are not 3-F, 4-F, 3-CF_3, 4-Cl, and if both R_3's are $-CH_3$ and one X_m is 4-F then the other X_m is not 4-Cl; further provided that if one R_3 is -H and the other R_3 is $-CH_3$ then both X_m's are not 4-Cl, and if one R_3 is -H and the other R_3 is $-CH_3$ then at least one m is 1;

or a pharmaceutically acceptable salt thereof.

4. (Previously presented) The method of claim 3 wherein for said compound each X is independently either –F, -Cl, $-OCF_3$ or $-CF_3$;
each R^1 is –H;
each R^2 is –H;
one R^3 is –H, and the other R^3 is either –H or $-CH_3$; and
each m is 1.

5. (Currently amended) A method of treating a patent for depression comprising administering to said patient an effective amount of a compound having the chemical structure ~~The method of claim 3 wherein said compound has the chemical structure:~~

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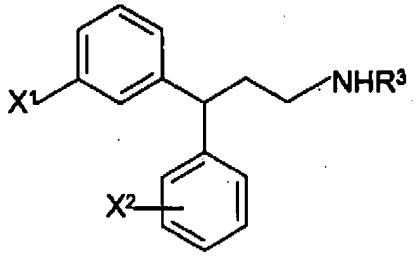
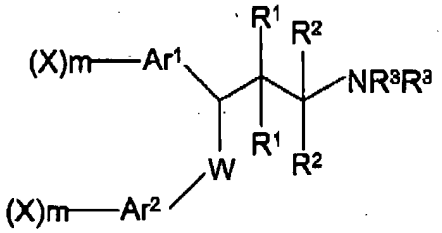


wherein X^1 is either -Br, -Cl, -F, -I, $-CF_3$, alkyl, -OH,
—OCF_3, -O-alkyl, or -O-acyl;
X^2 is either -Br, -Cl, -F, -I, $-CF_3$, alkyl, -OH, —OCF_3,
-O-alkyl, or -O-acyl; and
R^3 is either -H or $-CH_3$;
or a pharmaceutically acceptable salt thereof.

6. (Original) The method of claim 5, wherein X^1 is –F, -Cl, $-OCF_3$ or $-CF_3$; and X^2 is either 2-OCH_3, 2-CH_3, 3-F, 3-CF_3, or 4-CF_3.

7. (Withdrawn) A method of treating a patent for depression comprising the step of administering to said patient an effective amount of a compound having the chemical structure:



wherein each X is independently selected from the group consisting of -Br, -Cl, -F, -I, -CF_3, alkyl, -OH, —OCF_3, -O-alkyl, and -O-acyl;

W is selected from the group consisting of -CH_2, -O-, and –S-;

Ar^1 and Ar^2 are each independently selected from the group consisting of phenyl, naphthyl, thiofuranyl, tetrahydronaphthyl, furanyl, tetrahydrofuranyl, pyridyl, quinolinyl,

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isoquinolinyl, tetrahydroquinolinyl, tetrahydroisoquinolinyl cyclohexyl, cycloheptyl, and cyclopentyl;

each R^1 is independently selected from the group consisting of -H, alkyl, hydroxyalkyl, -OH, -O-alkyl, and -O-acyl;

each R^2 is independently selected from the group consisting of -H, alkyl, and hydroxyalkyl, or both R^2s together are imino;

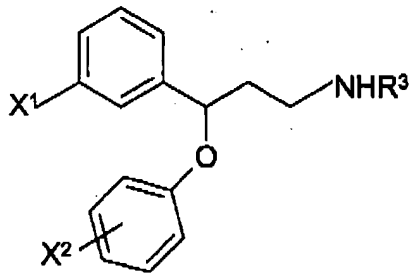
each R^3 is independently selected from the group consisting of -H, alkyl, 2-hydroxyethyl, and alkylphenyl; and

m is 0 to 5;

or a pharmaceutically acceptable salt thereof.

8. (Withdrawn) The method of claim 7, wherein for said compound each X is independently either –F, -Cl, $-OCF_3$ or $-CF_3$;
Ar^1 and Ar^2 are each independently phenyl or naphthyl;
each R^1 is –H;
each R^2 is –H;
one R^3 is –H, and the other R^3 is either –H or –CH;
each m is 0 or 1.

9. (Withdrawn) The method of claim 7, wherein said compound has the chemical structure:



wherein X^1 is either -Br, -Cl, -F, -I, $-CF_3$, alkyl, -OH,
—OCF_3, -O-alkyl, or -O-acyl;

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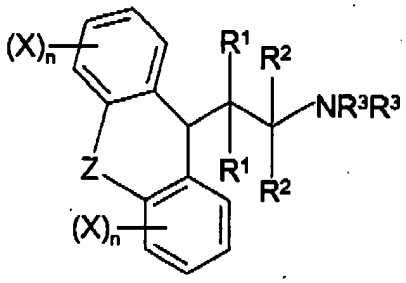
X^2 is either -Br, -Cl, -F, -I, $-CF_3$, alkyl, -OH, —OCF_3,
-O-alkyl, or -O-acyl; and
R^3 is either -H or $-CH_3$;
or a pharmaceutically acceptable salt thereof.

10. (Withdrawn) The method of claim 9 wherein X^1 is either –F, -Cl, $-OCF_3$ or $-CF_3$; and X^2 is either 2-OCH_3, 2-CH_3, 3-F, 3-CF_3, or 4-CF_3.

11. (Withdrawn) A method of treating a patent for depression comprising the step of administering to said patient an effective amount of a compound having the chemical structure:



wherein each X is independently selected from the group consisting of -Br, -Cl, -F, -I, -CF_3, alkyl, -OH, —OCF_3,

-O-alkyl, and -O-acyl;

each R^1 is independently selected from the group consisting of -H, alkyl, hydroxyalkyl, -OH, -O-alkyl, and -O-acyl;

each R^2 is independently selected from the group consisting of -H, alkyl, and hydroxyalkyl, or both R^2s together are imino;

each R^3 is independently selected from the group consisting of -H, alkyl, 2-hydroxyethyl, and alkylphenyl;

Z is either –CH_2CH_2-, -$CH_2CH(CH_3)$-, -CH=CH-, -O-CH_2-, -S-CH_2-, -CH_2-, -O-, or –S-; and

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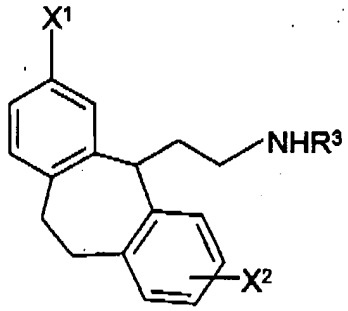
each n is independently 1 to 4; or a pharmaceutically acceptable salt thereof.

12. (Withdrawn) The compound of claim 11, wherein each X is independently either –F, -Cl, $-OCF_3$ or $-CF_3$;
each R^1 is –H;
each R^2 is –H;
one R^3 is –H, and the other R^3 is either –H or –CH; and
each n is 1.

13. (Withdrawn) The method of claim 11, wherein said compound has the chemical structure:



wherein X^1 is either -Br, -Cl, -F, -I, $-CF_3$, alkyl, -OH, —OCF_3, -O-alkyl, or -O-acyl;
X^2 is either -Br, -Cl, -F, -I, $-CF_3$, alkyl, -OH, —OCF_3, -O-alkyl, or -O-acyl; and
R^3 is either -H or $-CH_3$;
or a pharmaceutically acceptable salt thereof.

14. (Withdrawn) The method of claim 13 wherein X^1 is –F, -Cl, $-OCF_3$ or $-CF_3$; and X^2 is either –F, -Cl, $-OCH_3$, $-CH_3$, $-OCF_3$ or $-CF_3$.

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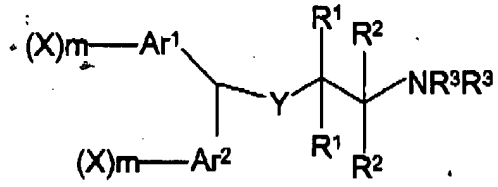
15. (Withdrawn) A method of treating a patent for depression comprising the step of administering to said patient an effective amount of a compound having the chemical structure:



wherein each X is independently selected from the group consisting of -Br, -Cl, -F, -I, -CF_3, alkyl, -OH, —OCF_3,

-O-alkyl, and -O-acyl; ; preferably, each X is independently either –F, -Cl, -OCF_3 or -CF_3;

Ar^1 and Ar^2 are each independently selected from the group consisting of phenyl, naphthyl, thiofuranyl, tetrahydronaphthyl, furanyl, tetrahydrofuranyl, pyridyl, quinolinyl, isoquinolinyl, tetrahydroquinolinyl, tetrahydroisoquinolinyl, cyclohexyl, cycloheptyl, and cyclopentyl; preferably Ar^1 and Ar^2 are independently naphthyl or phenyl; more preferably at least one of Ar^1 and Ar^2 is phenyl; and more preferably, both Ar^1 and Ar^2 are phenyl;

Y is either –CH_2-, -O-, or –S-;

each R^1 is independently selected from the group consisting of -H, alkyl, hydroxyalkyl, -OH, -O-alkyl, and -O-acyl; preferably, each R^1 is –H;

each R^2 is independently selected from the group consisting of -H, alkyl, and hydroxyalkyl, or both R^2s together are imino; preferably each R^2 is –H;

each R^3 is independently selected from the group consisting of -H, alkyl, 2-hydroxyethyl, and alkylphenyl; preferably, each R^3 is independently either -H or -CH_3; more preferably one R^3 is

–H, and the other R^3 is either –H or –CH; and

each m is independently an integer from 0 to 5; and preferably, each m is independently 0 or 1.

16. (Withdrawn) The method of claim 15, wherein said compound has the chemical structure; Structure VIII

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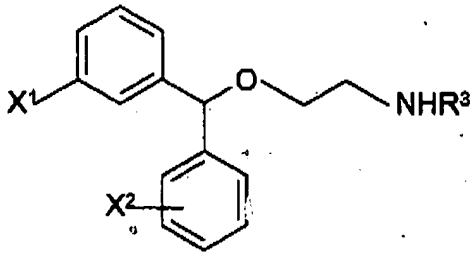

wherein X^1 is independently selected from the group consisting of –H, -Br, -Cl, -F, -I, $-CF_3$, alkyl, -OH,

—OCF_3, -O-alkyl, or -O-acyl; preferably, X^1 is either –F, -Cl,

$-OCF_3$ and $-CF_3$;

X^2 is either -Br, -Cl, -F, -I, $-CF_3$, alkyl, -OH, —OCF_3,

-O-alkyl, or -O-acyl; preferably, X^2 is independently either –F, -Cl, $-OCH_3$, $-CH_3$, $-OCF_3$ or $-CF_3$; more preferably, X^2 is either 2-OCH_3, 2-CH_3, 3-F, 3-CF_3, or 4-CF_3; and

R^3 is either –H or CH_3;

or a pharmaceutically acceptable salt thereof.

17. (Withrawn) A compound having the chemical structure;

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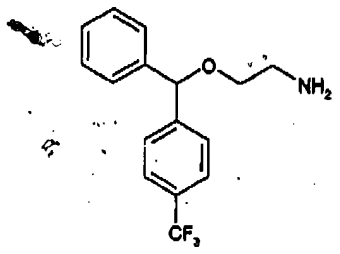
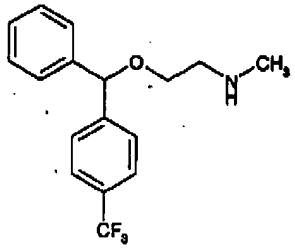
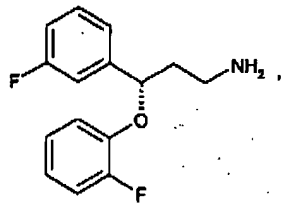
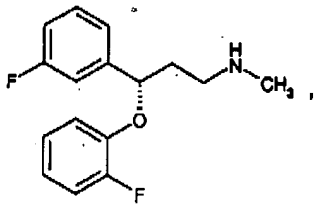
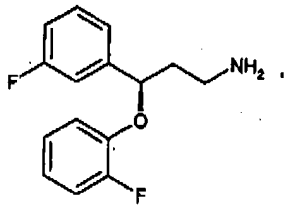
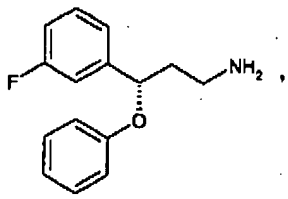
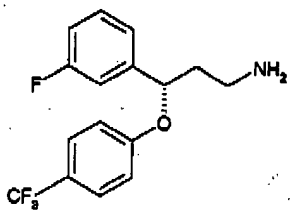
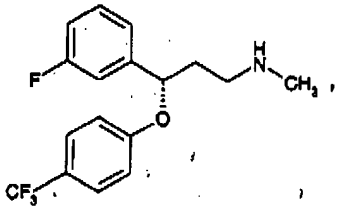
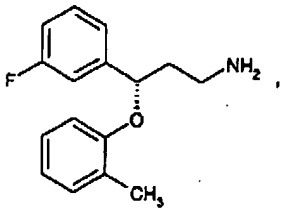
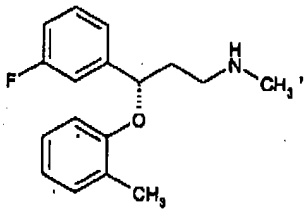
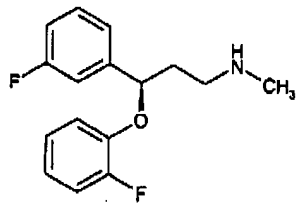
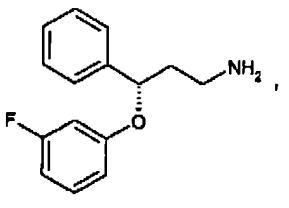
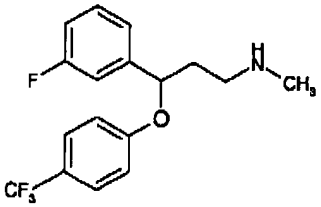

or a pharmaceutically acceptable salt thereof.

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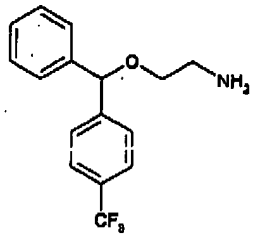
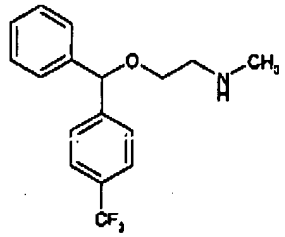
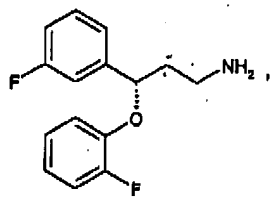
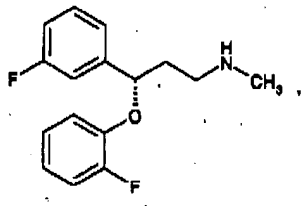
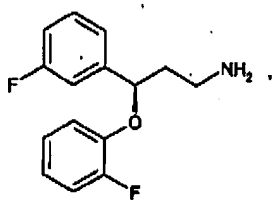
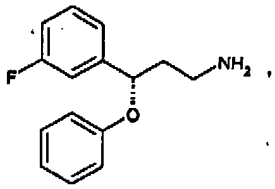
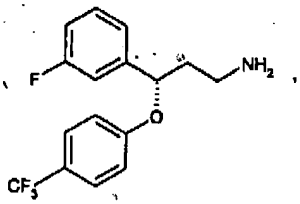
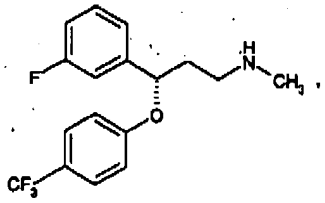
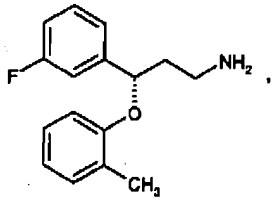
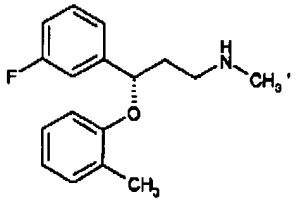
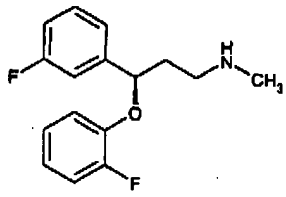
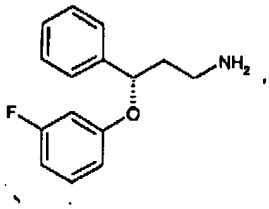
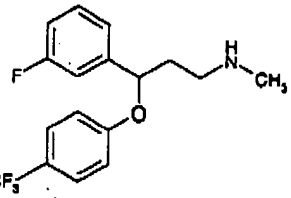
18. (Withdrawn) A method of treating a patent for depression comprising the step of administering to said patient an effective amount of a compound having the chemical structure:

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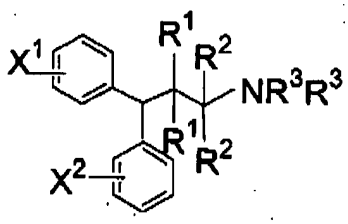
or a pharmaceutically acceptable salt thereof.

19. (Previously presented) The method of claim 3 wherein said compound has the chemical structure:



wherein

X^1 is either -Br, -Cl, -F, -I, $-CF_3$, alkyl, -OH, —OCF_3, -O-alkyl, or -O-acyl;

X^2 is either -Br, -Cl, -F, -I, $-CF_3$, alkyl, -OH, —OCF_3, -O-alkyl, or -O-acyl;

each R^1 is independently selected from the group consisting of -H, alkyl, hydroxyalkyl, -OH, -O-alkyl, and -O-acyl;

each R^2 is independently selected from the group consisting of -H, alkyl, and hydroxyalkyl, or both R^2s together are imino

each R^3 is independently selected from the group consisting of -H, alkyl, 2-hydroxyethyl, and alkylphenyl;

or a pharmaceutically acceptable salt thereof.

20. (Previously presented) The method of claim 19, wherein

each X is independently either –F, -Cl, $-OCF_3$ or $-CF_3$;

each R^1 is –H;

each R^2 is –H; and

one R^3 is –H, and the other R^3 is either –H or $-CH_3$.

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21. (New) The method of claim 5, wherein X^1 and X^2 are F, and R^3 is –H.

21. (New) The method of claim 21, wherein X^2 is at the 3-position.

23. (New) The method of claim 5, wherein X^1 and X^2 are F, and R^3 is $-CH_3$.

24. (New) The method of claim 23, wherein X^2 is at the 3-position.

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